

APC anti-human CD127 (IL-7R α) Antibody

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| Catalog# / Size | 351315 / 25 tests 351342 / 100 μ g 351316 / 100 tests |
| Clone | A019D5 |
| Regulatory Status | RUO |
| Other Names | IL-7 receptor α chain, IL-7R α |
| Isotype | Mouse IgG1, κ |
| Description | CD127 is a 60-90 kD type I transmembrane glycoprotein also known as IL-7 receptor α chain or IL-7R α . It forms a heterodimer with the common γ chain (γ c or CD132) which is shared with the receptors for IL-2, IL-4, IL-9, IL-13, IL-15, and IL-21. CD127 is expressed on immature B cells through early pre-B stage cells, thymocytes (except CD4/CD8 double positive thymocytes), peripheral T cells, and bone marrow stromal cells. CD127 has been reported to be a useful marker for identifying memory and effector T cells. Studies have shown that CD127 expression is down-modulated on Treg cells. It can be used as a marker for differentiation of Treg and conventional T cells. The ligation of IL-7 with its receptor is important for stimulation of mature and immature T cells as well as immature B cell proliferation and development. |

Product Details

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| Verified Reactivity | Human |
| Reported Reactivity | African Green, Baboon, Cynomolgus, Rhesus |
| Antibody Type | Monoclonal |
| Host Species | Mouse |
| Immunogen | Recombinant human CD127 |
| Formulation | μ g size: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide. test sizes: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA). |
| Preparation | The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. |
| Concentration | μ g sizes: 0.2 mg/mL test sizes: lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.) |
| Storage & Handling | The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze. |
| Application | FC - Quality tested |
| Recommended Usage | Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis . For flow cytometric staining using the μ g size, the suggested use of this reagent is ≤ 0.25 μ g per million cells in 100 μ l volume. It is recommended that the reagent be titrated for optimal performance for each application. For flow cytometric staining using the test sizes, the suggested use of this reagent is 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood. |
| Excitation Laser | Red Laser (633 nm) |
| Application Notes | Additional reported (for the relevant formats) application: proteogenomics ¹ . |
| Application References | 1. Peterson VM, <i>et al.</i> 2017. <i>Nat. Biotechnol.</i> 35:936. (PG) |
| Product Citations | 1. Rendeiro AF, <i>et al.</i> 2020. <i>Nat Commun.</i> 11:577. PubMed |

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RRID AB_10900814 (BioLegend Cat. No. 351315)
 AB_2564137 (BioLegend Cat. No. 351342)
 AB_10900804 (BioLegend Cat. No. 351316)

Antigen Details

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| Structure | Type I transmembrane glycoprotein, associates with CD132, 60-90 kD |
| Distribution | Immature B cells through early pre-B stage, thymocytes (except CD4/CD8 double positive thymocytes), peripheral T cells, bone marrow stromal cells |
| Function | T cell and immature B cell proliferation and development |
| Ligand/Receptor | IL-7 |
| Cell Type | B cells, T cells, Thymocytes, Tregs |
| Biology Area | Immunology |
| Molecular Family | CD Molecules, Cytokine/Chemokine Receptors |
| Antigen References | <ol style="list-style-type: none"> 1. Sudo T, <i>et al.</i> 1993. <i>P. Natl. Acad. Sci. USA</i> 90:9125. 2. He YW and Malek TR. 1998. <i>Crit. Rev. Immunol</i>. 18:503. 3. Huster KM, <i>et al.</i> 2004. <i>P. Natl. Acad. Sci. USA</i> 101:5610. 4. Pillai M, <i>et al.</i> 2004. <i>Leukemia Lymphoma</i> 45:2403. 5. Morrissey PJ, <i>et al.</i> 1989. <i>J. Exp. Med</i>. 169:707. 6. Liu W, <i>et al.</i> 2006. <i>J. Exp. Med</i>. 203:1701. |
| Gene ID | 3575 |

Related Protocols

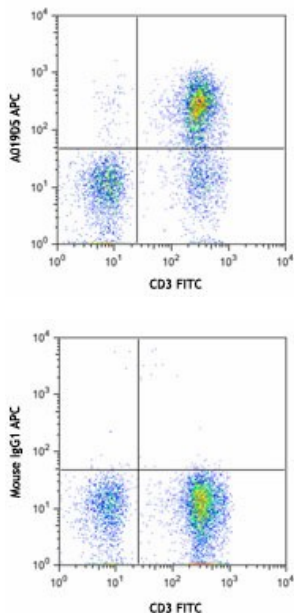
[Cell Surface Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-human CD127 (IL-7R α), PE anti-human CD127 (IL-7R α), Pacific Blue™ anti-human CD127 (IL-7R α), Brilliant Violet 421™ anti-human CD127 (IL-7R α), FITC anti-human CD127 (IL-7R α), Alexa Fluor® 488 anti-human CD127 (IL-7R α), APC anti-human CD127 (IL-7R α), Alexa Fluor® 647 anti-human CD127 (IL-7R α), PE/Cyanine7 anti-human CD127 (IL-7R α), PerCP/Cyanine5.5 anti-human CD127 (IL-7R α), Brilliant Violet 570™ anti-human CD127 (IL-7R α), PE/Cyanine5 anti-human CD127 (IL-7R α), Brilliant Violet 650™ anti-human CD127 (IL-7R α), Brilliant Violet 711™ anti-human CD127 (IL-7R α), Brilliant Violet 785™ anti-human CD127 (IL-7R α), Brilliant Violet 510™ anti-human CD127 (IL-7R α), Brilliant Violet 605™ anti-human CD127 (IL-7R α), PE/Dazzle™ 594 anti-human CD127 (IL-7R α), Purified anti-human CD127 (IL-7R α) (Maxpar® Ready), Alexa Fluor® 700 anti-human

CD127 (IL-7R α), Biotin anti-human CD127 (IL-7R α), APC/Cyanine7 anti-human CD127 (IL-7R α), APC/Fire™ 750 anti-human CD127 (IL-7R α), TotalSeq™-A0390 anti-human CD127 (IL-7R α), TotalSeq™-B0390 anti-human CD127 (IL-7R α), TotalSeq™-C0390 anti-human CD127 (IL-7R α), KIRAVIA Blue 520™ anti-human CD127 (IL-7R α), Spark NIR™ 685 anti-human CD127 (IL-7R α), PE/Fire™ 640 anti-human CD127 (IL-7R α), PE/Fire™ 700 anti-human CD127 (IL-7R α) Antibody, Spark YG™ 581 anti-human CD127 (IL-7R α), Brilliant Violet 750™ anti-human CD127 (IL-7R α), TotalSeq™-D0390 anti-human CD127 (IL-7R α), APC/Fire™ 810 anti-human CD127 (IL-7R α) Antibody, APC/Fire™ 750 anti-human CD127, PE anti-human CD127, PerCP/Cyanine5.5 anti-human CD127, PE/Cyanine7 anti-human CD127, Spark Red™ 718 anti-human CD127 (IL-7R α)

Product Data



Human peripheral blood lymphocytes were stained with CD3 FITC and CD127 (clone A019D5) APC (top) or mouse IgG1 APC isotype control (bottom).

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